

IN THE SPECIFICATION:

Please amend Paragraph 5 as follows:

[5] Furthermore, the radio frequency part of a mixer must have a high gain, good linearity and low standby current. In order to achieve these performances, means of polarizing this radio frequency stage are usually used such that the standby current varies with the input signal making the circuit more linear for a given standby current. Furthermore, in order to guarantee stable temperature performances, the means of polarizing ~~polarising~~ the radio frequency stage of the mixer usually use currents proportional to the absolute temperature (PTAT currents). Thus, standby currents in the radio frequency stage of the mixer vary with the power of the input signal and with the temperature.

Please amend Paragraph 21 as follows:

[21] The device may also comprise a differential current amplifier connected between the two outputs from the transconductor block and means of polarizing ~~polarising~~ this transconductor block, so as to servocontrol the difference between input currents to the current switching block to zero by making a differential control of the static output currents from the transconductor block.

Please amend Paragraph 41 as follows:

[41] The transistors Qrf1 and Qrf2 are polarized by polarization ~~polarisation~~ means RFBP with a conventional structure known in itself, and in particular two currents Iref1 and Iref2 are applied to the two terminals B1 and B2.